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DATE: Monday, March 27, 2006

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L92	L91 and (user near5 queries)	7
☐	L91	L90 and user$1	12
☐	L90	l88 and concurrent	12
☐	L89	L88 and (concurrent near5 search$3)	0
☐	L88	L87 and metadata	33
☐	L87	L86 and link$3 and (index$3 near5 data)	154
☐	L86	(sparse and subset$1 and data and source$1 and index$3 and (search$3 or query$3) and stor$3 and analyz$3) and @py<=2003	395
☐	L85	(file near5 shar$3) and (file near5 scrubb$3) and (query near5 option$1) and (monitor$3 near5 user$1) and @py<=2003	0
☐	L84	(automatically near5 determin$3) same (data near5 source$1) and (multiple near5 source$1) and (automatically near5 index$3) and (automatically near5 monitor$3) and (automatically near5 analyz$3) and @py<=2003	0
☐	L83	L82 and (tag$1 or url$1)	5
☐	L82	L81 and (automatical$4 near5 index$3)	10
☐	L81	L80 and (search$1 near5 engine$1)	205
☐	L80	(multiple or plurality) same (data near5 source$1) and (select$3 near5 source$1) and @py<=2003	5340
☐	L79	L78 and ((user$1 near5 id$1) same (index$3 near5 content$1))	2
☐	L78	(user$1 near5 history) same (user$1 adj5 access$1) and (time or data or timestamp$3) and @py<=2003	553
☐	L77	L76 and ((query$3 or search$3) near5 index$1)	9
☐	L76	L75 and ((index$3) near5 (url$1 or html$1 or document$1)) and (user$1 near5 access$3)	15
☐	L75	(user adj5 accessed) same (web near5 page$1) same (time or data or timestamp$3) and @py<=2003	214
☐	L74	L73 and (index$3 near5 url$1)	7
☐	L73	L71 and ((user$1) same (access$3 near5 url$1))	16
☐	L72	L71 and ((query$3 or search$3) same (content adj5 index$1))	1
☐	L71	L70 and ((captur$3 or monitor$3) near5 user$1)	76
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☐	L67	(index$3 near5 user$1) same (user near5 access$3) and (index$3 near5 data) and @py<=2003	481
☐	L66	L65 and (www or inernet)	16
☐	L65	(user near5 id$1) and (user near5 access$3) and (network near5 monitor$3) and (date or time or timestamp$3) and (index$3 near5 content$1) and @py<=2003	42
☐	L64	(internet or www) same (user accessed) same (time or date or timestamp$3) and (index$3 near5 url$1) and Py<=2003	2
☐	L63	((user near5 access$3) same ((monitor$3) near5 (www or internet)) and (index$3 near5 content$1)) and @py<=2003	13
☐	L62	(user near5 history) same (user near5 access$3) and (content near5 index$3) and (query$3 near5 index$1) and @py<=2003	10
☐	L61	L60 and ((query$3 or search$3) same (content near5 index$1))	19
☐	L60	L59 and ((index$3) same (user near5 profil$1))	98
☐	L59	L58 and ((filter$3 or query$3) same (user near5 profil$1))	1029
☐	L58	(user$1 near5 profil$3) and (user near5 access$3) and (internet or www) and @py<=2003	6328
☐	L57	L56 and ((search$3 or query$3) near5 (index$1))	0
☐	L56	L55 and ((filter$3) near5 (data or item$1 or information))	7
☐	L55	L51 and (user$1 near5 profil$1)	31
☐	L54	L51 and (user$1 naer5 profil$1)	0
☐	L53	L52 and ((search$3 or query$3) near5 (index$1))	2
☐	L52	L51 and ((index$3) near5 (url$1 or web adj page$1))	7
☐	L51	(web page$1) same (user$1 adj5 accessed) same (timestamp$3 or time or date) and @py<=2002	88
☐	L50	L49 and ((query$3 or search$3) same (content near5 index$1))	5
☐	L49	L48 and (index$3 near5 data)	62
☐	L48	L47 and ((filter$3) near5 (content$1 or item$1 or information or data))	429
☐	L47	(user near5 access$3) same (internet or www) same (authentic$3 or password)	3843
☐	L46	(usr near5 access$3) same (internet or www) same (authentic$3 or password)	0
☐	L45	L43 and (user$1 near5 authenticat$3)	19
☐	L44	L43 and ((user$1 near5 access$3) same (time near5 stamp$3))	2
☐	L43	L42 and ((query$3 or search$3) same (content near5 index$1))	48
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☐	L40	L39 and (boolean and metadata)	12
☐	L39	L38 and (filter$3 or search$3 or query$3)	164
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☐	L37	(title$1 and date and rank and attachment$1 and email$)	245
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☐	L35	(title$1 and date and rank and 'mail to' and attachment$1)	0

☐	L34	L33 and (title$1 and date and rank and 'mail to' and attachment$1)	0
☐	L33	((search$3 and engine$1)and (www or internet) and (determin$3 near5 access$3) and (filter$3 or query$3) and (web near5 page$1) or ((web near5 document$1)) and (index$3 near5 content$1)) and @py<=2003	1493
☐	L32	('5778378' |'6493718' |'6546388' |'6605120')!.ABPN1,NRPN,PN,TBAN,WKU.	12
☐	L31	(internet near5 usage) and (index$3 near5 data) and metadata and @py<=2002	8
☐	L30	L29 and file$1	28
☐	L29	L28 and index$3	28
☐	L28	((internet near5 usage) same (analyz$3))	83
☐	L27	((internet near5 usage) same (analyz$3)) and file$1 and folder$1 and multimedia and email$1	0
☐	L26	(internet near5 usage) same analyz$3 and file$1 and folder$1 and multimedia and email$1	0
☐	L25	L24 and multimedia	13
☐	L24	L23 and display$3	14
☐	L23	L22 and html	14
☐	L22	L21 and url$1	19
☐	L21	L20 and (search$3 near5 engine$1)	28
☐	L20	L18 and index$3	49
☐	L19	L18 and (folder$1 near5 index$3)	0
☐	L18	L17 and ((path or director$2) near5 (file$1 or record$1))	49
☐	L17	L16 and metadata	72
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☐	L15	(access$3 or retriev$3) near5 (data or record$1 or file$1) and (usage near5 analy$3)	1824
☐	L14	(usage near5 analyzer$1) and (search$3 near5 source$1) and (index$3 near5 data) and @py<=2002	1
☐	L13	L12 and email$3	3
☐	L12	L11 and (filter$3 or query$3)	11
☐	L11	L10 and display$3	16
☐	L10	(search$3 and engine$1 and index$3).ti.	82
☐	L9	L8 and index$3	16
☐	L8	L7 and (usage analysis)	17
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☐	L5	(file$1 and foldeer$1 and internet and usage and analysis) and @py<=2003	0
☐	L4	L3 and (logical or boolean)	6
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☐	L2	L1 and (user near5 histor$1)	9
		(file$1 and folder$1 and data and (hyperlink or url$1) and image$1 and	

☐	L1	appointment$1 and (emial$3 or email$1) and (search$3 or query$3) and index$3 and display$3 and usage and analys$3 and (www or internet) and tag$1 and filter$3) and @py<=2004	22

END OF SEARCH HISTORY

RESULT LIST
9 results found in the Worldwide database for:
sparse in the title AND **display** in the title or abstract
(Results are sorted by date of upload in database)

1 **SPECTRAL VELOCITY ESTIMATION USING AUTOCORRELATION FUNCTIONS FOR SPARSE DATA SETS**
Inventor: JENSEN JOERGEN ARENDT (DK) **Applicant:** DANMARKS TEKNISKE UNI (DK); JENSEN JOERGEN ARENDT (DK)
EC: G01S15/89D7; G01S15/58E **IPC:** ***A61B8/06; G01S15/58; G01S15/89*** (+5)
Publication info: **WO2006002625** - 2006-01-12

2 **Sparse refresh of display**
Inventor: WILLIS THOMAS E (US); MIDFORD STEVEN L (US) **Applicant:** INTEL CORP
EC: G06F12/10L; G09G5/36 **IPC:** ***G06F12/10; G09G5/36***; **G06F12/10** (+3)
Publication info: **US2005195208** - 2005-09-08

3 **METHOD AND DEVICE FOR EVALUATION OF FINANCIAL DERIVATIVES USING SPARSE GRIDS**
Inventor: WAHL SEBASTIAN (DE); GERSTNER THOMAS (DE); (+1) **Applicant:** WAHL SEBASTIAN (DE); GERSTNER THOMAS (DE); (+1)
EC: G06Q40/00B **IPC:** ***G06F17/10***; **G06F17/10**; (IPC1-7): G06F17/10 (+1)
Publication info: **CA2364920** - 2002-06-13

4 **Sparse refresh of display**
Inventor: WILLIS THOMAS E (US); MIDFORD STEVEN L (US) **Applicant:** INTEL CORP (US)
EC: G09G5/395 **IPC:** ***G09G5/395***; **G09G5/36**; (IPC1-7): G09G5/36
Publication info: **US2003107579** - 2003-06-12

5 **SPARSE FREQUENCY WAVEFORM RADAR SYSTEM AND METHOD**
Inventor: SMALL JAMES G (US) **Applicant:**
EC: G01S7/28; G01S7/36; (+2) **IPC:** ***G01S7/28; G01S7/36; G01S13/10*** (+6)
Publication info: **US2002154054** - 2002-10-24

6 **Sparse vector rasterization**
Inventor: SULLIVAN STEVEN K (US); DOBYNS KENNETH P (US); (+3) **Applicant:** TEKTRONIX INC (US)
EC: G01R13/34C **IPC:** ***G01R13/34***; **G01R13/22**; (IPC1-7): G01R13/02
Publication info: **TW440694B** - 2001-06-16

7 **Altitude sparse aircraft display**
Inventor: TOGNAZZINI BRUCE (US) **Applicant:** SUN MICROSYSTEMS INC (US)
EC: G08G5/04 **IPC:** ***G08G5/04***; **G08G5/00**; (IPC1-7): G08G5/04
Publication info: **US6076042** - 2000-06-13

8 **Altitude sparse aircraft display**
Inventor: TOGNAZZINI BRUCE (US) **Applicant:** SUN MICROSYSTEMS INC (US)
EC: G08G5/04 **IPC:** ***G08G5/04***; **G08G5/00**; (IPC1-7): G08G5/04
Publication info: **US5884223** - 1999-03-16

9 **ARITHMETIC PROCESSING SYSTEM FOR SPARSE MATRIX**
Inventor: KAGE TETSUO; OOISHI YUUKO **Applicant:** FUJITSU LTD
EC: G06F17/16 **IPC:** ***G06F17/16***; **G06F17/16**; (IPC1-7): G06F15/347
Publication info: **JP60247782** - 1985-12-07

RESULT LIST
Approximately **115** results found in the Worldwide database for:
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1 SPARSE CACHING FOR STREAMING MEDIA.
Inventor: THALES PAULO DE CARVALHO (US) **Applicant:** MICROSOFT CORP (US)
EC: **IPC:** ***G06F3/00; G06F12/02; G06F13/00*** (+9)
Publication info: **MXPA04006412** - 2005-04-25

2 SPECTRAL VELOCITY ESTIMATION USING AUTOCORRELATION FUNCTIONS FOR SPARSE DATA SETS
Inventor: JENSEN JOERGEN ARENDT (DK) **Applicant:** DANMARKS TEKNISKE UNI (DK); JENSEN JOERGEN ARENDT (DK)
EC: G01S15/89D7; G01S15/58E **IPC:** ***A61B8/06; G01S15/58; G01S15/89*** (+5)
Publication info: **WO2006002625** - 2006-01-12

3 Motion estimation process and system using sparse search block-matching and integral protection
Inventor: CHANG CHING-FANG (US); YANAGIHARA NAOFUMI (JP) **Applicant:** SONY ELECTRONICS INC (JP)
EC: G06T7/20B; H04N5/14M2; (+2) **IPC:** ***G06T7/20; H04N5/14; H04N7/26*** (+5)
Publication info: **US6996176** - 2006-02-07

4 PERCEPTUAL SUBBAND AUDIO CODING USING ADAPTIVE MULTITYPE SPARSE VECTOR QUANTIZATION, AND SIGNAL SATURATION SCALER
Inventor: MANTEGNA JOHN (US); WU SHUWU (US) **Applicant:** AMERICA ONLINE INC (US)
EC: **IPC:** (IPC1-7): G10L21/04; G10L21/02
Publication info: **CA2523773** - 1999-05-06

5 Detection of randomness in sparse data set of three dimensional time series distributions
Inventor: O'BRIEN JR FRANCIS J (US) **Applicant:** US NAVY (US)
EC: **IPC:** (IPC1-7): G06F17/00
Publication info: **US6980926** - 2005-12-27

6 Sparse refresh of display
Inventor: WILLIS THOMAS E (US); MIDFORD STEVEN L (US) **Applicant:** INTEL CORP
EC: G06F12/10L; G09G5/36 **IPC:** ***G06F12/10; G09G5/36***; **G06F12/10** (+3)
Publication info: **US2005195208** - 2005-09-08

7 A SYSTEM AND METHOD FOR A SPARSE KERNEL EXPANSION FOR A BAYES CLASSIFIER
Inventor: DUNDAR MURAT (US); FUNG GLENN (US); (+2) **Applicant:** SIEMENS MEDICAL SOLUTIONS (US); DUNDAR MURAT (US); (+3)
EC: **IPC:** ***G06K9/62***; **G06K9/62**; (IPC1-7): G06K9/62
Publication info: **WO2005078638** - 2005-08-25

8 Multi-resolution image data management system and method based on tiled wavelet-like transform and sparse data coding
Inventor: CHUI CHARLES K (US); GAO HONG-YE (US); (+1) **Applicant:** ZORAN CORP (US)
EC: G06F3/033A1; G06T3/40; (+6) **IPC:** ***G06F3/033; G06T3/40; G06T9/00*** (+6)
Publication info: **US2005053301** - 2005-03-10

9 Method and apparatus for populating sparse matrix entries from corresponding data
Inventor: PRAIRIE EDEN; ROGER JAMES P **Applicant:** PLATINUM TECHNOLOGY INC
EC: **IPC:** ***G06F17/30***; **G06F17/30**; (IPC1-7): G06F17/30

RESULT LIST
1 result found in the Worldwide database for:
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1 Shifting sampling window and interleaves sparse K-space data acquisition for improved temporal resolution

Inventor: LIU KECHENG (US); PALMER NEIL (US); (+1)

Applicant: KONINKL PHILIPS ELECTRONICS NV (NL)

EC: G01R33/56

IPC: ***G01R33/56***; *G01R33/36*; **G01R33/54** (+2)

Publication info: **US6434413** - 2002-08-13

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Publication info: **AU2004203851** - 2004-09-09

10 Method and apparatus for producing digital orthophotos using sparse stereo configurations and external models

Inventor: KNOPP DAVID E (US) Applicant:

EC: G01C11/06 IPC: ***G01C11/06***; **G01C11/00**; (IPC1-7): G06K9/00

Publication info: **US2005031197** - 2005-02-10

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RESULT LIST
1 result found in the Worldwide database for:
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1 **A SYSTEM AND METHOD FOR A SPARSE KERNEL EXPANSION FOR A BAYES CLASSIFIER**

Inventor: DUNDAR MURAT (US); FUNG GLENN (US); (+2)
EC:
Applicant: SIEMENS MEDICAL SOLUTIONS (US); DUNDAR MURAT (US); (+3)
IPC: ***G06K9/62***; **G06K9/62**; (IPC1-7): G06K9/62

Publication info: **WO2005078638** - 2005-08-25

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RESULT LIST
3 results found in the Worldwide database for:
sparse in the title AND **indexing** in the title or abstract
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1 **Process and system for sparse vector and matrix representation of document indexing and retrieval**
Inventor: COADY ARIC (US) **Applicant:**
EC: **IPC:** ***G06F7/00; G06F17/00***; **G06F7/00** (+2)
Publication info: **US2004205063** - 2004-10-14

2 **Process and system for sparse vector and matrix reperesentation of document indexing and retrieval**
Inventor: COADY ARIC (US) **Applicant:**
EC: **IPC:** ***G06F7/00; G06F17/00***; **G06F7/00** (+2)
Publication info: **US2002091715** - 2002-07-11

3 **Method and apparatus for indexing patterned sparse arrays for microprocessor data cache**
Inventor: DOOLING DARIA ROSE (US); MULLIN LENORE MARIE RESTIFO (US); (+1) **Applicant:** IBM (US)
EC: G06F12/02B **IPC:** ***G06F12/02***; **G06F12/02**; (IPC1-7): G06F17/30
Publication info: **US5878424** - 1999-03-02

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Citations: **Concurrent search** structure algorithms - Shasha ...
D. Shasha and N. Goodman. **Concurrent search** structure algorithms. ACM Transactions on Database Systems, 13(1):53--90, March 1988.
citeseer.ist.psu.edu/context/12021/0 - 35k - Cached - Similar pages

Citations: **Concurrent search** and insertion in 2-3 trees - Ellis ...
CS Ellis. **Concurrent search** and insertion in 2-3 trees. Acta Informatica, 14:63--86, 1980.
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[PPT] Designing **Concurrent Search** Structure Algorithms
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Designing **Concurrent Search** Structure Algorithms. Dennis Shasha. What is a **Search** Structure? Data structure (typically aB tree, hash structure, R-tree, etc. ...
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all the cells of the network, the **concurrent search** approach is able to reduce ... presents the mathematical formulation of the **concurrent search**. problem. ...
people.ece.cornell.edu/haas/wnl/Publications/tn17.pdf - Similar pages

Search Pilot Program - OG Date: 25 May 1999
Notice to the Public Regarding the 1999 **Concurrent Search** Pilot Program The United States Patent and Trademark Office (USPTO), the European Patent Office ...
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Philip Gwyn / Tie-**Concurrent - search**.cpan.org
All, Modules, Distributions, Authors. Philip Gwyn > Tie-**Concurrent** ... Tie::**Concurrent**, Paranoid tie for **concurrent** access, 0.04 ...
search.cpan.org/dist/Tie-Concurrent/ - 5k - Cached - Similar pages

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ACM Trans. Database Syst. 6(4): 650-670(1981)
Efficient Locking for **Concurrent** Operations on B-Trees. ... [6]: Carla Schlatter Ellis: **Concurrent Search** and Insertion in 2-3 Trees. ...
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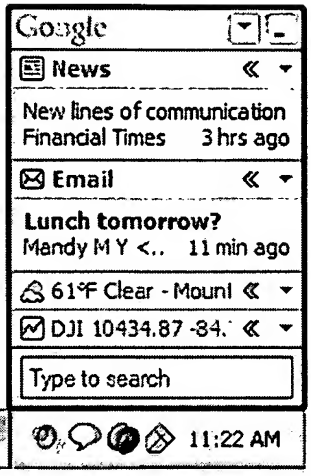

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The Website of the Trilateral Co-operation :: Projects
Report on **Concurrent Search** Pilot Program (Paris-route) Carried Out under Trilateral Project B3a. Report (PDF 142KB). Last modified: February 22 2006 ...
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[#CONF-4718] Test **concurrent search** performance - Atlassian JIRA
This could impact **search** performance on **concurrent** searches. Refer to this thread: http://thread.gmane.org/gmane.comp.jakarta.lucene.user/12150 ...
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Concurrent Search Program
The following program is intended to **search** the positive integers and negative integers in parallel until a zero is found. S is [S1||S2] where ...
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> **Concurrent Search** Program
> PROGRAM VERIFICATION. Homework #2: Shared Find. Fill in a proof outline (repairing the program, if necessary) that shows that this program finds the ...
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EP833257 Motorola european software patent - Apparatus and method ...

EP833257 Motorola inc (US): Apparatus and method for **concurrent search** content addressable memory circuit Verfahren und gerät zum parallelen suchen eines ...
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DBPL-8, 2001: Frascati, Italy
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XML Europe **2002**: **Concurrent** Markup for XML Documents. ... These two principles have
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Each GDQS data service resource is able to process multiple **concurrent** queries ...
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Andrei Robachevsky . 13th APNIC Open Policy Meeting, March **2002**, Bangkok . http://www.ripe.net. **Query** Performance (II). Response time, s. # of **concurrent** ...
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Concurrent Markup. for XML Documents. In Proc. XML Europe, May. **2002**. [14] D. Florescu and D. Kossmann. Storing and **querying**. XML data using an RDMBS. ...
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A list of allowed cli numbers can now be returned from the sql **query**. ... Version 3.4 (12/02/**2002**). Day limits are now supported. **Concurrent** SQL connection ...
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The PERFORMANCE_MONITOR_MAXSESSIONS parameter specifies the maximum number of **concurrent** sessions that can be monitored. Because only one **query** can be ...
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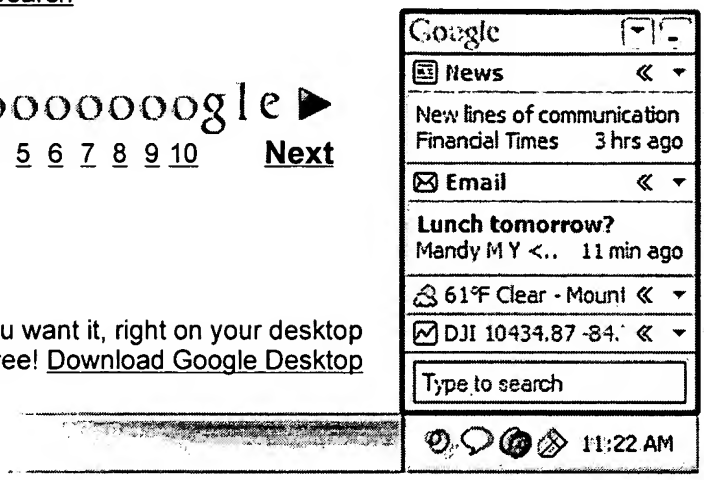

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1 Register allocation across procedure and module boundaries

Vatsa Santhanam, Daryl Odnert

June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90**, Volume 25 Issue 6

Publisher: ACM Press

Full text available: pdf(1.51 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a method for compiling programs using interprocedural register allocation. A strategy for handling programs built from multiple modules is presented, as well as algorithms for global variable promotion and register spill code motion. These algorithms attempt to address some of the shortcomings of previous interprocedural register allocation strategies. Results are given for an implementation on a single register file RISC-based architec ...

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 Symbolic analysis of large analog circuits with determinant decision diagrams

C.-J. Richard Shi, Xiangdong Tan

November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: pdf(335.84 KB) Additional Information: full citation, abstract, references, citings, index terms

Publisher Site

Symbolic analog-circuit analysis has many applications, and is especially useful for analog

synthesis and testability analysis. In this paper, we present a new approach to exact and canonical symbolic analysis by exploiting the sparsity and sharing of product terms. It consists of representing the symbolic determinant of a circuit matrix by a graph---called determinant decision diagram (DDD)---and performing symbolic analysis by graph manipulations. We showed that DDD construction and DDD-based ...

4 The GTPN analyzer: numerical methods and user interface

Mark A. Holliday, Mary K. Vernon

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**

Publisher: IEEE Computer Society Press

Full text available: pdf(801.02 KB) Additional Information: full citation, references, citings, index terms

5 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press

Full text available: pdf(5.02 MB) Additional Information: full citation

6 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

7 Efficient descriptor-vector multiplications in stochastic automata networks

Paulo Fernandes, Brigitte Plateau, William J. Stewart

May 1998 **Journal of the ACM (JACM)**, Volume 45 Issue 3

Publisher: ACM Press

Full text available: pdf(275.57 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper examines numerical issues in computing solutions to networks of stochastic automata. It is well-known that when the matrices that represent the automata contain only constant values, the cost of performing the operation basic to all iterative solution methods, that of matrix-vector multiply, is given by rN=i=1

N

nixi=1

N

ni

Keywords: Markov chains, generalized tensor algebra, stochastic automata networks, vector-descriptor multiplication

8 Design and implementation of a diagnostic compiler for PL/I

Richard W. Conway, Thomas R. Wilcox
March 1973 **Communications of the ACM**, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, citings

PL/C is a compiler for a dialect for PL/I. The design objective was to provide a maximum degree of diagnostic assistance in a batch processing environment. For the most part this assistance is implicit and is provided automatically by the compiler. The most remarkable characteristic of PL/C is its perseverance—it completes translation of every program submitted and continues execution until a user-established error limit is reached. This requires that the compiler repair errors encoun ...

Keywords: PL/I, compilers, debugging, programming languages

9 Technical reports

SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation

10 Special issue on knowledge representation

Ronald J. Brachman, Brian C. Smith
February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were twe useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

11 SUIF Explorer: an interactive and interprocedural parallelizer

Shih-Wei Liao, Amer Diwan, Robert P. Bosch, Anwar Ghuloum, Monica S. Lam
May 1999 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN symposium on Principles and practice of parallel programming PPoPP '99**, Volume 34 Issue 8

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: full citation, abstract, references, citings, index terms

The SUIF Explorer is an interactive parallelization tool that is more effective than previous systems in minimizing the number of lines of code that require programmer assistance. First, the interprocedural analyses in the SUIF system is successful in parallelizing many coarse-grain loops, thus minimizing the number of spurious dependences requiring attention. Second, the system uses dynamic execution analyzers to identify those important loops that are likely to be parallelizable. Third, the SU ...

12 Shade: a fast instruction-set simulator for execution profiling

Bob Cmelik, David Keppel

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.28 MB) Additional Information: full citation, abstract, references, citings, index terms

Tracing tools are used widely to help analyze, design, and tune both hardware and software systems. This paper describes a tool called Shade which combines efficient instruction-set simulation with a flexible, extensible trace generation capability. Efficiency is achieved by dynamically compiling and caching code to simulate and trace the application program. The user may control the extent of tracing in a variety of ways; arbitrarily detailed application state information may be collected ...

13 Debugging concurrent programs

Charles E. McDowell, David P. Helmbold

December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The main problems associated with debugging concurrent programs are increased complexity, the "probe effect," nonrepeatability, and the lack of a synchronized global clock. The probe effect refers to the fact that any attempt to observe the behavior of a distributed system may change the behavior of that system. For some parallel programs, different executions with the same data will result in different results even without any attempt to observe the behavior. Even when the behavior can be ...

14 Application of axiomatic methods to a specification analyser

Susan L. Gerhart

March 1984 **Proceedings of the 7th international conference on Software engineering**

Publisher: IEEE Press

Full text available: pdf(839.91 KB) Additional Information: full citation, abstract, references, citings, index terms

The goal of this paper was to model a specification language and its analyser using axiomatic methods derived from those applied previously to abstract data type and state transition specifications. The models attempt to cover many interesting features of PSL/PSA, a widely used specification language and analyser for information systems. Simple properties expected to hold for actual PSL/PSA were formalized and proved about some models, with assumptions about undefined parts. Both model form ...

15 Large-scale circuit placement

Jason Cong, Joseph R. Shinnerl, Min Xie, Tim Kong, Xin Yuan

April 2005 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(428.15 KB) Additional Information: full citation, abstract, references, index terms

Placement is one of the most important steps in the RTL-to-GDSII synthesis process, as it directly defines the interconnects, which have become the bottleneck in circuit and system performance in deep submicron technologies. The placement problem has been studied extensively in the past 30 years. However, recent studies show that existing placement solutions are surprisingly far from optimal. The first part of this tutorial summarizes

results from recent optimality and scalability studies of exi ...

Keywords: Placement, large-scale optimization, optimality, scalability

16 Recent technical reports

December 1979 **ACM SIGACT News**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: pdf(1.99 MB) Additional Information: full citation

17 Compiling nested data-parallel programs for shared-memory multiprocessors

Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 Issue 3

Publisher: ACM Press

Full text available: pdf(4.17 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: compilers, data parallelism, shared-memory multiprocessors

18 Special issue: AI in engineering

D. Sriram, R. Joobbani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: pdf(8.79 MB) Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

19 Technique for automatically correcting words in text

Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(6.23 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

20

Translating collocations for bilingual lexicons: a statistical approach

Frank Smadja, Kathleen R. McKeown, Vasileios Hatzivassiloglou

March 1996 **Computational Linguistics**, Volume 22 Issue 1

Publisher: MIT Press

Collocations are notoriously difficult for non-native speakers to translate, primarily because they are opaque and cannot be translated on a word-by-word basis. We describe a program named Champollion which, given a pair of parallel corpora in two different languages and a list of collocations in one of them, automatically produces their translations. Our goal is to provide a tool for compiling bilingual lexical information above the word level in multiple languages, for different domains. The a ...

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1 Generating highly-routable sparse crossbars for PLDs

Guy Lemieux, Paul Leventis, David Lewis

February 2000 **Proceedings of the 2000 ACM/SIGDA eighth international symposium on Field programmable gate arrays**

Publisher: ACM Press

Full text available: pdf(952.31 KB) Additional Information: full citation, abstract, references, citings, index terms

A method for evaluating and constructing sparse crossbars which are both area efficient and highly routable is presented. The evaluation method uses a network flow algorithm to accurately compute the percentage of random test vectors that can be routed. The construction method attempts to maximize the spread of the switch locations, such that any given subset of input wires can connect to as many output wires as possible. Based on Hall's Theorem, we argue that this increases the likelihood ...

2 Special issue on special feature: Dimensionality reduction via sparse support vector machines

Jinbo Bi, Kristin Bennett, Mark Embrechts, Curt Breneman, Minghu Song

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(243.71 KB) Additional Information: full citation, abstract, citings, index terms

We describe a methodology for performing variable ranking and selection using support vector machines (SVMs). The method constructs a series of sparse linear SVMs to generate linear models that can generalize well, and uses a subset of nonzero weighted variables found by the linear models to produce a final nonlinear model. The method exploits the fact that a linear SVM (no kernels) with l_1-norm regularization inherently performs variable selection as a side-effect of minimizin ...

3 Special issue on ICML: Some greedy learning algorithms for sparse regression and classification with mercer kernels

Prasanth B. Nair, Arindam Choudhury, Andy J. Keane

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(165.16 KB) Additional Information: full citation, abstract, index terms

We present greedy learning algorithms for building sparse nonlinear regression and classification models from observational data using Mercer kernels. Our objective is to

develop efficient numerical schemes for reducing the training and runtime complexities of kernel-based algorithms applied to large datasets. In the spirit of Natarajan's greedy algorithm (Natarajan, 1995), we iteratively minimize the L_2 loss function subject to a specified constraint on the degree of sparsity ...

4 Bottom-up computation of sparse and Iceberg CUBE

Kevin Beyer, Raghu Ramakrishnan
June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2
Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

We introduce the Iceberg-CUBE problem as a reformulation of the datacube (CUBE) problem. The Iceberg-CUBE problem is to compute only those group-by partitions with an aggregate value (e.g., count) above some minimum support threshold. The result of Iceberg-CUBE can be used (1) to answer group-by queries with a clause such as HAVING COUNT(*) >= X, where X is greater than the threshold, (2) for mining multidimensional association rules, and (3) to complement existing strategies for identif ...

5 Special issue on independent components analysis: A multiscale framework for blind separation of linearly mixed signals

Pavel Kisilev, Michael Zibulevsky, Yehoshua Y. Zeevi
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(781.15 KB) Additional Information: full citation, abstract, index terms

We consider the problem of blind separation of unknown source signals or images from a given set of their linear mixtures. It was discovered recently that exploiting the sparsity of sources and their mixtures, once they are projected onto a proper space of sparse representation, improves the quality of separation. In this study we take advantage of the properties of multiscale transforms, such as wavelet packets, to decompose signals into sets of local features with various degrees of sparsity. ...

6 The existence and density of generalized complexity cores

Ronald V. Book, Ding-Zhu Du
July 1987 **Journal of the ACM (JACM)**, Volume 34 Issue 3
Publisher: ACM Press

Full text available: pdf(1.09 MB) Additional Information: full citation, abstract, references, index terms, review

If C is a class of sets and A is not in C, then an infinite set H is a proper hard core for A with respect to C, if H ⊆ A and for every C &egr; C such that C ⊆ A, C ⋒ H is finite. It is shown that if C is a countable class of sets of strings t ...

7 Session 26: linear algebra II: Improved load distribution in parallel sparse cholesky factorization

Edward Rothberg, Robert Schreiber
November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

Compared to the customary column-oriented approaches, block-oriented, distributed-memory sparse Cholesky factorization benefits from an asymptotic reduction in interprocessor communication volume and an asymptotic increase in the amount of concurrency that is exposed in the problem. Unfortunately, block-oriented approaches

(specifically, the block fan-out method) have suffered from poor balance of the computational load. As a result, achieved performance can be quite low. This paper investigates ...

8 Sparse sets in NP-P: Exptime versus nexptime

J. Hartmanis, V. Sewelson, N. Immerman
December 1983 **Proceedings of the fifteenth annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(774.35 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper investigates the structural properties of sets in NP-P and shows that the computational difficulty of lower density sets in NP depends explicitly on the relations between higher deterministic and nondeterministic time-bounded complexity classes. The paper exploits the recently discovered upward separation method, which shows for example that there exist sparse sets in NP-Pif and only if EXPTIME @@@@ NEXPT ...

9 On Reducibility to Complex or Sparse Sets

Nancy Lynch
July 1975 **Journal of the ACM (JACM)**, Volume 22 Issue 3
Publisher: ACM Press
Full text available: pdf(330.30 KB) Additional Information: full citation, references, citings, index terms

10 Anonymous authentication with subset queries (extended abstract)

Dan Boneh, Matt Franklin
November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**
Publisher: ACM Press

Full text available: pdf(613.93 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop new schemes for anonymous authentication that support identity escrow. Our protocols also allow a prover to demonstrate membership in an arbitrary subset of users; key revocation is an important special case of this feature. Using the Fiat-Shamir heuristic, our interactive authentication protocols yield new constructions for non-interactive group signature schemes. We use the higher-residuosity assumption, which leads to greater efficiency and more natural security proofs than pr ...

Keywords: anonymous authentication, group signature, identity escrow

11 Sparse matrix test problems

I. S. Duff, Roger G. Grimes, John G. Lewis
March 1989 **ACM Transactions on Mathematical Software (TOMS)**, Volume 15 Issue 1
Publisher: ACM Press

Full text available: pdf(961.78 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We describe the Harwell-Boeing sparse matrix collection, a set of standard test matrices for sparse matrix problems. Our test set comprises problems in linear systems, least squares, and eigenvalue calculations from a wide variety of scientific and engineering disciplines. The problems range from small matrices, used as counter-examples to hypotheses in sparse matrix research, to large test cases arising in large-scale

computation. We offer the collection to other researchers as a standard ...

12 Session 9B: Verifying candidate matches in sparse and wildcard matching

Richard Cole, Ramesh Hariharan
May 2002 **Proceedings of the thiry-fourth annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(255.37 KB) Additional Information: full citation, abstract, references, citings, index terms

(MATH) This paper obtains the following results on pattern matching problems in which the text has length n and the pattern has length m

- An $O(n\log m)$ time deterministic algorithm for the String Matching with Wildcards problems, even when the alphabet is large.
- An $O(k\log^2 m)$ time Las Vegas algorithm for the Sparse String Matching with Wildcards problem, where $k \ll n$ is the number of non-zeros in the ...

13 Array language support for parallel sparse computation

Bradford L. Chamberlain, Lawrence Snyder
June 2001 **Proceedings of the 15th international conference on Supercomputing**
Publisher: ACM Press

Full text available: pdf(312.38 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an array-based language-level approach to parallel sparse computation. Our approach is unique due to its separation of sparse index sets from arrays, both syntactically and in the implementation. This design allows users to express their computation using dense array syntax, making the code easier for readers to understand and for compilers to parallelize and optimize. This work is done within the context of Advanced ZPL, retaining its crisp syntax and source-level perfor ...

Keywords: Advanced ZPL, MPI, NAS parallel benchmarks, parallel computing, parallel language, sparse array, sparse matrix

14 Session 5A: All maximal independent sets and dynamic dominance for sparse graphs

David Eppstein
January 2005 **Proceedings of the sixteenth annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: pdf(805.88 KB) Additional Information: full citation, abstract, references

We describe algorithms, based on Avis and Fukuda's reverse search paradigm, for listing all maximal independent sets in a sparse graph in polynomial time and delay per output. For bounded degree graphs, our algorithms take constant time per set generated; for minor-closed graph families, the time is $O(n)$ per set, and for more general sparse graph families we achieve subquadratic time per set. We also describe new data structures for maintaining a dynamic vertex set S in a sp ...

15 Sparse code motion

Oliver Rüthing, Jens Knoop, Bernhard Steffen
January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**
Publisher: ACM Press

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, citings, index terms

In this article, we add a third dimension to partial redundancy elimination by considering code size as a further optimization goal in addition to the more classical consideration of computation costs and register pressure. This results in a family of sparse code motion algorithms coming as modular extensions of the algorithms for busy and lazy code motion. Each of them optimally captures a predefined choice of priority bet ...

Keywords: busy code motion, code motion, code size, compuational optimality, embedded processors and systems, expression motion, lazy code motion, life-time optimality, partial redundancy elimination, space optimality

16 Level set and PDE methods for computer graphics

David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

17 The isomorphism conjecture fails relative to a random oracle

Stuart A. Kurtz, Stephen R. Mahaney, James S. Royer
March 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 2
Publisher: ACM Press
Full text available: pdf(1.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: conjecture, isomorphism, randomness

18 Learning sparse multivariate polynomials over a field with queries and counterexamples

Robert E. Schapire, Linda M. Sellie
August 1993 **Proceedings of the sixth annual conference on Computational learning theory**
Publisher: ACM Press
Full text available: pdf(1.13 MB) Additional Information: full citation, references, citings, index terms

19 Sparse bayesian learning and the relevance vector machine

Michael E. Tipping
September 2001 **The Journal of Machine Learning Research**, Volume 1
Publisher: MIT Press
Full text available: pdf(999.88 KB) Additional Information: full citation, abstract, citings

This paper introduces a general Bayesian framework for obtaining sparse solutions to regression and classification tasks utilising models linear in the parameters. Although this framework is fully general, we illustrate our approach with a particular specialisation that

we denote the 'relevance vector machine' (RVM), a model of identical functional form to the popular and state-of-the-art 'support vector machine' (SVM). We demonstrate that by exploiting a probabilistic Bayesian learning framewor ...

20 Sparsification—a technique for speeding up dynamic graph algorithms

David Eppstein, Zvi Galil, Giuseppe F. Italiano, Amnon Nissenzweig
September 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 5
Publisher: ACM Press

Full text available: pdf(160.07 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We provide data strutures that maintain a graph as edges are inserted and deleted, and keep track of the following properties with the following times: minimum spanning forests, graph connectivity, graph 2-edge connectivity, and bipartiteness in timeO(n1/2) per change; 3-edge connectivity, in time O(n2/3) per change; 4-edge connectivity, in time O(n ...

Keywords: dynamic graph algorithms, edge and vertex connectivity, minimum spanning trees

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Terms used **sparse subsets index** Found **18,085** of **171,143**

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1 Physical database design: Applying approximate order dependency to reduce indexing space
Jirun Dong, Richard Hull
June 1982 **Proceedings of the 1982 ACM SIGMOD international conference on Management of data SIGMOD '82**
Publisher: ACM Press
Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings

The recently introduced notion of order dependency in the relational model is generalized to include situations where order dependency is satisfied in an approximate way. Two fundamental types of approximate satisfaction are distinguished and analyzed. It is shown for both types that such approximate satisfaction of order dependencies can be applied to substantially reduce indexing space without significantly increasing access time.

2 Monomial bases and polynomial system solving (extended abstract)
Ioannis Z. Emiris, Ashutosh Rege
August 1994 **Proceedings of the international symposium on Symbolic and algebraic computation**
Publisher: ACM Press
Full text available: pdf(918.96 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problem of efficient construction of monomial bases for the coordinate rings of zero-dimensional varieties.

3 Compile-time composition of run-time data and iteration reorderings
Michelle Mills Strout, Larry Carter, Jeanne Ferrante
May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation PLDI '03**, Volume 38 Issue 5
Publisher: ACM Press
Full text available: pdf(208.69 KB) Additional Information: full citation, abstract, references, citings, index terms

Many important applications, such as those using sparse data structures, have memory reference patterns that are unknown at compile-time. Prior work has developed run-time reorderings of data and computation that enhance locality in such applications.This paper presents a compile-time framework that allows the explicit composition of run-time data and iteration-reordering transformations. Our framework builds on the iteration-

reordering framework of Kelly and Pugh to represent the effects of a g ...

Keywords: data remapping, inspector/executor, iteration reordering, optimization, run-time transformations, sparse tiling

4 A subdivision-based algorithm for the sparse resultant

John F. Canny, Ioannis Z. Emiris
May 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 3
Publisher: ACM Press

Full text available: pdf(2.36 MB) Additional Information: full citation, abstract, references, citings, index terms

Multivariate resultants generalize the Sylvester resultant of two polynomials and characterize the solvability of a polynomial system. They also reduce the computation of all common roots to a problem in linear algebra. We propose a determinantal formula for the sparse resultant of an arbitrary system of n + 1 polynomials in n variables. This resultant generalizes the classical one and has significantly lower degree for polynomials that are sparse in the se ...

Keywords: Newton polytope, asymptotic complexity, effective Nullstellensatz, mixed volume, multivariate resultant, polyhedral subdivision, sparse elimination theory

5 An Automatic Technique for Selection of Data Representations in SETL Programs

Edmond Schonberg, Jacob T. Schwartz, Micha Sharir
April 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 3 Issue 2
Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

6 Anonymous authentication with subset queries (extended abstract)

Dan Boneh, Matt Franklin
November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**
Publisher: ACM Press

Full text available: pdf(613.93 KB) Additional Information: full citation, abstract, references, citings, index terms

We develop new schemes for anonymous authentication that support identity escrow. Our protocols also allow a prover to demonstrate membership in an arbitrary subset of users; key revocation is an important special case of this feature. Using the Fiat-Shamir heuristic, our interactive authentication protocols yield new constructions for non-interactive group signature schemes. We use the higher-residuosity assumption, which leads to greater efficiency and more natural security proofs than pr ...

Keywords: anonymous authentication, group signature, identity escrow

7 Compressed suffix arrays and suffix trees with applications to text indexing and string matching (extended abstract)

Roberto Grossi, Jeffrey Scott Vitter
May 2000 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**
Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, references, citings, index terms

8 Session 9: image indexing and retrieval: An effective region-based image retrieval framework

Feng Jing, Mingjing Li, Hong-Jiang Zhang, Bo Zhang
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(216.67 KB) Additional Information: full citation, abstract, references, citings

We present a region-based image retrieval framework that integrates efficient region-based representation in terms of storage and retrieval and effective on-line learning capability. The framework consists of methods for image segmentation and grouping, indexing using modified inverted file, relevance feedback, and continuous learning. By exploiting a vector quantization method, a compact region-based image representation is achieved. Based on this representation, an indexing scheme similar to t ...

Keywords: continuous learning, inverted file, region-based image retrieval, relevance feedback

9 Array language support for parallel sparse computation

Bradford L. Chamberlain, Lawrence Snyder
June 2001 **Proceedings of the 15th international conference on Supercomputing**
Publisher: ACM Press
Full text available: pdf(312.38 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an array-based language-level approach to parallel sparse computation. Our approach is unique due to its separation of sparse index sets from arrays, both syntactically and in the implementation. This design allows users to express their computation using dense array syntax, making the code easier for readers to understand and for compilers to parallelize and optimize. This work is done within the context of Advanced ZPL, retaining its crisp syntax and source-level perfor ...

Keywords: Advanced ZPL, MPI, NAS parallel benchmarks, parallel computing, parallel language, sparse array, sparse matrix

10 Automatic data structure selection in SETL

Edmond Schonberg, Jacob T. Schwartz, Micha Sharir
January 1979 **Proceedings of the 6th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**
Publisher: ACM Press
Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, citings

SETL is a very high level programming language supporting set theoretical syntax and semantics. It allows algorithms to be programmed rapidly and succinctly without requiring data structure declarations to be supplied, though such declarations can be manually specified later, without recoding the program, to improve the efficiency of program execution. We describe a new technique for automatic selection of appropriate data representations during compile-time for undeclared, or partially declared ...

11 Regions: an abstraction for expressing array computation

Bradford L. Chamberlain, E. Christopher Lewis, Calvin Lin, Lawrence Snyder
December 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on APL**

'99 : On track to the 21st century: On track to the 21st century APL '99, Volume 29 Issue 2
Publisher: ACM Press

Full text available: pdf(831.67 KB) Additional Information: full citation, abstract, references, citings, index terms

Most array languages, including Fortran 90, Matlab, and APL, provide support for referencing arrays by extending the traditional array subscripting construct found in scalar languages. We present an alternative to subscripting that exploits the concept of *regions*--an index set representation that can be named, manipulated with high-level operators, and syntactically separated from array references. This paper develops the concept of region-based programming and describes its benefits in ...

12 Range queries in OLAP data cubes

Ching-Tien Ho, Rakesh Agrawal, Nimrod Megiddo, Ramakrishnan Srikant
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2
Publisher: ACM Press

Full text available: pdf(1.91 MB) Additional Information: full citation, abstract, references, citings, index terms

A range query applies an aggregation operation over all selected cells of an OLAP data cube where the selection is specified by providing ranges of values for numeric dimensions. We present fast algorithms for range queries for two types of aggregation operations: SUM and MAX. These two operations cover techniques required for most popular aggregation operations, such as those supported by SQL. For range-sum queries, the essential idea is to precompute some auxiliary information ...

13 Session 9C: On AC^0 implementations of fusion trees and atomic heaps

Mikkel Thorup
January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(996.51 KB) Additional Information: full citation, abstract, references, citings, index terms

Addressing a question of Fredman and Willard from STOC'90, we show that fusion trees cannot be implemented using the AC^0 operations available through a standard programming language such as C. However, they can be implemented using AC^0 operations on emerging multimedia processors such as the Pentium 4.A fusion node is a linear space representation of an integer set X of size $O(\sqrt{W})$, where $W \geqslant \log n$ is the word-length. The fusion node supp ...

14 Sparse dynamic programming II: convex and concave cost functions

David Eppstein, Zvi Galil, Raffaele Giancarlo, Giuseppe F. Italiano
July 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 3
Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings, index terms

Dynamic programming solutions to two recurrence equations, used to compute a sequence alignment from a set of matching fragments between two strings, and to predict RNA secondary structure, are considered. These recurrences are defined over a number of points that is quadratic in the input size; however, only a sparse set matters for the result. Efficient algorithms are given for solving these problems, when the cost of a gap in the alignment or a loop in the secondary structure is taken as ...

Keywords: dynamic programming, recurrence, sequence alignment, sparsity, time

complexity

15 Special issue on special feature: Dimensionality reduction via sparse support vector machines

Jinbo Bi, Kristin Bennett, Mark Embrechts, Curt Breneman, Minghu Song
March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(243.71 KB) Additional Information: full citation, abstract, citings, index terms

We describe a methodology for performing variable ranking and selection using support vector machines (SVMs). The method constructs a series of sparse linear SVMs to generate linear models that can generalize well, and uses a subset of nonzero weighted variables found by the linear models to produce a final nonlinear model. The method exploits the fact that a linear SVM (no kernels) with l_1-norm regularization inherently performs variable selection as a side-effect of minimizin ...

16 Programming by Refinement, as Exemplified by the SETL Representation Sublanguage

Robert K. Dewar, Arthur and Ssu-Cheng Liu and Jacob T. Schwartz and Edmond Schonberg
January 1979 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(1.49 MB) Additional Information: full citation, abstract, references, citings, index terms

"Pure" SETL is a language of very high level allowing algorithms to be programmed rapidly and succintly. SETL's representation sublanguage adds a system of declarations which allow the user of the language to control the data structures that will be used to implement an algorithm which has already been written in pure SETL, so as to improve its efficiency. Ideally no rewriting of the algorithm should be necessary. The facilities provided by the representation sublanguage and the ...

17 Efficient sparse matrix factorization for circuit simulation on vector supercomputers

P. Sadayappan, V. Visvanathan
June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available: pdf(883.19 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes an efficient approach to sparse matrix factorization on vector supercomputers. The approach is suitable for application domains like circuit simulation that require the repeated direct solution of unsymmetric sparse linear systems of equations with identical zero-nonzero structure. An Overlap-Scatter data structure is used to represent the sparse matrix, enabling the use of multiple operand access modes to achieve higher performance than earlier proposed approaches. The ...

18 Inverted files versus signature files for text indexing

Justin Zobel, Alistair Moffat, Kotagiri Ramamohanarao
December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: pdf(243.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Two well-known indexing methods are inverted files and signature files. We have undertaken a detailed comparison of these two approaches in the context of text

indexing, paying particular attention to query evaluation speed and space requirements. We have examined their relative performance using both experimentation and a refined approach to modeling of signature files, and demonstrate that inverted files are distinctly superior to signature files. Not only can inverted files be used to ev ...

Keywords: indexing, inverted files, performance, signature files, text databases, text indexing

19 Succinct indexable dictionaries with applications to encoding *k*-ary trees and multisets

Rajeev Raman, Venkatesh Raman, S. Srinivasa Rao

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references, citings

We consider the *indexable dictionary* problem which consists in storing a set $S \subseteq \{0,\ldots, m - 1\}$ for some integer m, while supporting the operations of $rank(x)$, which returns the number of elements in S that are less than x if $x \in S$, and -1 otherwise; and $select(i)$ which returns the i-th smallest element in S.We give a structure that supports both operations in $O(1)$ time on t ...

20 A New Implementation of Sparse Gaussian Elimination

Robert Schreiber

September 1982 **ACM Transactions on Mathematical Software (TOMS)**, Volume 8 Issue 3

Publisher: ACM Press

Full text available: pdf(1.05 MB) Additional Information: full citation, references, citings, index terms

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